

I CLAIM:

1. A smoke exhauster comprising:
 - a housing,
 - a motor attached to said housing, and
 - 5 a fan device attached to said motor and to be driven by said motor, said fan device including:
 - an upper plate,
 - a lower plate having a bore formed therein, and
 - a plurality of fan blades secured between said upper plate
 - 10 and said lower plate, to define a chamber between said upper plate and said lower plate of said fan device, said chamber of said fan device being communicating with said bore of said lower plate to allow air to flow into said chamber of said fan device, and each of said fan blades including a lower cut-off portion formed therein to
 - 15 allow the air to flow deeper into said chamber of said fan device before contacting with said fan blades.
2. The smoke exhauster as claimed in claim 1, wherein said upper plate and said lower plate each includes a plurality of slits formed therein, each of said fan blades includes an upper portion
- 20 and a lower portion each having at least one ear extended therefrom and engaged through said slits of said upper and said lower plates, for securing said fan blades between said upper and said lower plates.
3. The smoke exhauster as claimed in claim 1, wherein each of
- 25 said fan blades includes an inclined edge defined by said lower cut-off portion thereof.
4. The smoke exhauster as claimed in claim 1, wherein each of

said fan blades includes an inner segment, an intermediate segment, and an outer segment, said outer segment of said fan blade includes a width no greater than that of said lower plate of said fan device.

5 5. The smoke exhauster as claimed in claim 4, wherein said inner segment of said fan blade includes a height smaller than that of said intermediate segment and said outer segment of said fan blade.

10 6. The smoke exhauster as claimed in claim 4, wherein said outer segment of said fan blade includes a width smaller than that of said inner segment and said intermediate segment of said fan blade.

7. The smoke exhauster as claimed in claim 4, wherein said intermediate segment of said fan blade includes a curvature greater than that of said inner segment of said fan blade.

15 8. The smoke exhauster as claimed in claim 4, wherein said intermediate segment of said fan blade includes a curvature less than that of said outer segment of said fan blade.